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PTO/SB/21 (02-04)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/501,268
	Filing Date	July 9, 2004
	First Named Inventor	Guillermo J. Tearney
	Art Unit	2878
	Examiner Name	Patrick J. Connolly
Total Number of Pages in This Submission	Attorney Docket Number	036290/US/2 - 475387-00017

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	DORSEY & WHITNEY, LLP Gary Abelev, Esq. (Reg No. 40,479)
Signature	
Date	April 20, 2005

CERTIFICATE OF TRANSMISSION/MAILING	
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Date	April 20, 2005

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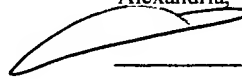
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s) : Guillermo J. Tearney et al.
Serial No. : 10/501,268
Filed : July 9, 2004
Entitled : APPARATUS AND METHOD FOR LOW COHERENCE
RANGING (as amended)
Group Art Unit : 2878
Examiner : Patrick J. Connolly

INFORMATION DISCLOSURE STATEMENT

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P.O. Box 1450
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(Signature)

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicants bring to the attention of the Examiner the documents listed on the attached Form PTO 1449, and respectfully request that the listed documents be considered by the Examiner and made of record in the above-captioned application. Copies of the United States patent references listed on the Form PTO-1449 are not enclosed, but the PCT/foreign references are enclosed.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed documents are material or constitute "prior art." If the Examiner applies the documents as prior art against any claim in the application and applicants determine that the cited documents do not constitute "prior art" under

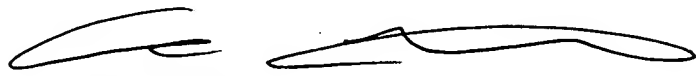
United States law, applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of the documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should the documents be applied against the claims of the present application.

This submission is being filed before any action by the U.S. Patent and Trademark Office on the merits. Therefore, applicants do not believe that any fee is due in connection with the submission of this paper. However, if any fee is due, or if any overpayment has been made, the Commissioner is authorized to charge any such fee or credit any overpayment, to our Deposit Account No. 50-2054.

Respectfully submitted,

DORSEY & WHITNEY, LLP



Gary Abelev
PTO Reg. No. 40,479
Attorneys for Applicants
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Atty. Docket No.
036290/US/2 - 475387-17

Serial No.
10/501,268

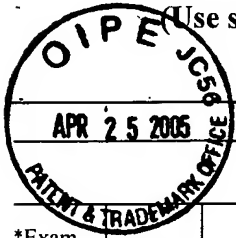
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Applicant(s)
Guillermo J. Tearney et al.

Filing Date
July 9, 2004

Group
2878



U.S. PATENT DOCUMENTS

*Exam. Init.	Document No.								Date	Name	Class	Subclass	Filing Date if Appropriate
	2	3	3	9	7	5	4		January 25, 1944	P.H. Brace			
	4	6	0	1	0	3	6		July 15, 1986	Faxvog et al			
	4	6	3	1	4	9	8		December 23, 1986	Cutler			
	4	8	6	8	8	3	4		September 19, 1989	Fox et al			
	4	9	2	5	3	0	2		May 15, 1990	Cutler			
	4	9	9	3	8	3	4		February 19, 1991	Carlhoff et al			
	5	0	4	0	8	8	9		August 20, 1991	Keane			
	5	0	4	6	5	0	1		September 10, 1991	Crilly			
	5	1	2	0	9	5	3		June 9, 1992	Harris			
	5	1	9	7	4	7	0		March 30, 1993	Helfer et al			
	5	2	9	3	8	7	2		March 15, 1994	Alfano et al			
	5	3	1	7	3	8	9		May 31, 1994	Hochberg et al			
	5	3	2	1	5	0	1		June 14, 1994	Swanson et al			
	5	3	5	3	7	9	0		October 11, 1994	Jacques et al			
	5	3	8	3	4	6	7		January 24, 1995	Auer et al			
	5	4	1	9	3	2	3		May 30, 1995	Kittrell et al			
	5	4	3	9	0	0	0		August 8, 1995	Gunderson et al			
	5	4	4	1	0	5	3		August 15, 1995	Lodder et al			
	5	4	5	9	5	7	0		October 17, 1995	Swanson et al			
	5	4	6	5	1	4	7		November 7, 1995	Swanson			
	5	4	8	6	7	0	1		January 23, 1996	Norton et al			
	5	4	9	1	5	5	2		February 13, 1996	Kittrell			
	5	5	6	2	1	0	0		October 8, 1996	Kittrell et al			
	5	5	9	0	6	6	0		January 7, 1997	MacAulay et al			
	5	6	0	1	0	8	7		February 11, 1997	Richards-Kortum et al			
	5	6	9	7	3	7	3		December 16, 1997	Gunderson et al			

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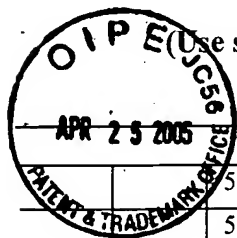
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	5	7	1	9	3	9	9	February 17, 1998	Alfano et al			
	5	7	4	8	5	9	8	May 5, 1998	Swanson et al			
	5	7	4	8	3	5	2	July 21, 1998	Swanson et al.			
	5	7	9	5	2	9	5	August 18, 1998	Hellmuth et al			
	5	8	0	3	0	8	2	September 8, 1998	Stapleton et al			
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	5	8	4	2	9	9	5	December 1, 1998	Mahadevan-Jansen et al			
	5	8	6	5	7	5	4	February 2, 1999	Sevick-Muraca et al			
	5	8	7	1	4	4	9	February 16, 1999	David Lloyd Brown			
	5	9	2	1	9	2	6	July 13, 1999	Rolland et al			
	5	9	5	6	3	5	5	September 21, 1999	Swanson et al			
	5	9	6	8	0	6	4	October 19, 1999	Selmon et al			
	5	9	8	7	3	4	6	November 16, 1999	Benaron et al			
	5	9	9	4	6	9	0	November 30, 1999	Kulkarni et al			
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	6	0	3	3	7	2	1	March 7, 2000	Nikos Nassuphis			
	6	0	4	4	2	8	8	March 28, 2000	Wake et al			
	6	0	4	8	7	4	2	April 11, 2000	Weyburne et al			
	6	0	6	9	6	9	8	May 30, 2000	Ozawa et al			
	6	0	9	1	9	8	4	July 18, 2000	Perelman et al			
	6	1	1	1	6	4	5	August 29, 2000	Tearney et al			
	6	1	1	7	1	2	8	September 12, 2000	Kenton W. Gregory			
	6	1	2	0	5	1	6	September 19, 2000	Selmon et al			
	6	1	3	4	0	0	3	October 17, 2000	Tearney et al			

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	6	1	4	1	5	7	7	October 31, 2000	Rolland et al			
	6	1	5	1	5	2	2	November 21, 2000	Alfano et al			
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	6	1	8	5	2	7	1	February 6, 2001	Richard Estyn Kinsinger			
	6	1	9	1	8	6	2	February 20, 2001	Swanson et al			
	6	2	0	1	9	8	9	March 13, 2001	Whitehead et al.			
	6	2	0	8	8	8	7	March 27, 2001	Richard H. Clarke			
	6	2	8	2	0	1	1	August 28, 2001	Tearney et al			
	6	3	4	1	0	3	6	January 22, 2002	Tearney et al			
	6	3	7	7	3	4	9	April 23, 2002	Adolf Friedrich Fercher			
	6	4	2	1	1	6	4	July 16, 2002	Tearney et al			
	6	4	8	5	4	1	3	November 26, 2002	Boppart et al			
	6	4	8	5	4	8	2	November 26, 2002	W. Martin Belef			
	6	5	0	1	5	5	1	December 31, 2002	Tearney et al			
	6	5	5	2	7	9	6	April 22, 2003	Magnin et al			
	6	5	6	4	0	8	7	May 13, 2003	Pitris et al			
	6	6	2	2	7	3	2	September 23, 2003	Brent R. Constantz			
2002	0	1	6	1	3	5	7	October 31, 2002	Rox et al			
2002	0	1	6	3	6	2	2	November 7, 2002	Magnin et al			
2003	0	0	2	3	1	5	3	January 30, 2003	Izatt et al			
2003	0	2	3	6	4	4	3	December 25, 2003	Cespedes et al			

FOREIGN PATENT DOCUMENT

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		Document No.							Date	Country	Class	SubClass	Translator	
													Yes	No
		4	3	0	9	0	5	6	September 22, 1994	Germany				
		2	2	0	9	2	2	1	May 4, 1989	Great Britain				
		0	1	1	0	2	0	1	June 13, 1984	European				
		0	2	5	1	0	6	2	January 7, 1988	European				
		9	2	1	9	9	3	0	November 12, 1992	WIPO				
		9	3	0	3	6	7	2	March 4, 1993	WIPO				
		9	7	3	2	1	8	2	September 4, 1997	WIPO				
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		9	9	5	7	5	0	7	November 11, 1999	WIPO				
		0	0	5	8	7	6	6	October 5, 2000	WIPO				
		0	2	5	4	0	2	7	July 11, 2002	WIPO				

OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)

			"High Resolution in Vivo Intra-Arterial Imaging with Optical Coherence Tomography" by Jujimoto et al., in the <u>Official Journal of the British Cardiac Society</u> , Vol. 82, pages 128-133 Heart - 1999,											
			"Optical Coherence Tomography" by D. Huang et al., in <u>SCIENCE</u> , Vol. 254, pages 1178-1181, November, 1991											
			"High-Speed Phase -and Group Delay Scanning with a Grating Based Phase Control Delay Line" by Tearney, et al., in <u>Optics Letters</u> , Vol. 22, Pages 1811-1813, December, 1997											
			"In Vivo Video Rate Optical Coherence Tomography" by Rollins, et al., in the <u>Optics Express</u> , Vol. 3, pages 219-229, September, 1998											

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High Speed Fiber-Based Polarization-Sensitive Optical Coherence Tomography of in Vivo Human Skin" by Saxer, et al., in the Optical Society of America, Vol. 25, pages 1355-1357, September, 2000

"3000 Times Grating Compress or with Positive Group Velocity Dispersion" by Oscar Eduardo Martinez, in the IEEE, Vol. QE-23, pages 59-64, January, 1987

"Image Enhancement in Optical Coherence Tomography Using Deconvolution" by Kulkarni, et al., in the Electronics Letters, Vol. 33, pages 1365-1367, July, 1997

"Signal Processing for Improving Field Cross-Correlation Function in Optical Coherence Tomography" by Bashkansky, et al., in the Optics & Photonics News, Vol. 9, pages 8137-8138, May, 1998

"Phase-Domain Processing of Optical Coherence Tomography Images" by Yung, et al., in the Journal of Biomedical Optics, Vol. 4, pages 125-136, January, 1999

"In Vivo Endoscopic Optical Biopsy with Optical Coherence Tomography" by Tearney, et al., in the SCIENCE, Vol. 276, June, 1997

"In Vivo Ultrahigh-Resolution Optical Coherence Tomography" by W. Drexler et al., Opt. Lett. Vol. 24, pp. 1221-3, Sept. 1999

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